

IN THE CLAIMS:

Replace all earlier versions of the claims with the following listing of the claims.

1- 15. (Cancelled)

16. (New) A water distribution system for a dishwasher having a washing chamber defined by opposite side walls, a bottom wall, a top wall, a back wall, and a door, the water distribution system comprising:

a disk having an upward facing surface, a downward facing surface and an outer peripheral edge, the disk being mounted on the top wall for rotation about a vertical axis, the disk having a plurality of vanes extending vertically from the upward facing surface toward the top wall and horizontally from about the axis of rotation to about the peripheral edge, the plurality of vanes forming a plurality of openings along the peripheral edge of the disk; and

a water nozzle positioned at a distance greater than a radius of the disk from the axis of rotation of the disk on one of the back wall, side walls, or top wall, the water nozzle configured and arranged to project a single water jet substantially horizontally and with linear kinetic energy along a line lying in a plane, the single water jet being directed by the nozzle generally radially inwardly towards the axis of rotation of the disk into the plurality of openings to rotate the disk and thereby redirect the water radially outwardly horizontally with radial kinetic energy substantially co-planar with the linear kinetic energy of the single water jet, for distribution of the water in the washing chamber.

17. (New) The water distribution system of claim 16, wherein the bottom wall, back wall and door of the dishwasher comprise a drawer and the top wall comprises a lid.

18. (New) The water distribution system of claim 16 further comprising a second disk with a plurality of vanes mounted on the top wall for rotation about a second vertical axis of rotation and a second water nozzle positioned at a distance greater than a radius of the second disk from the second axis of rotation on one of the top wall or side walls, the second water nozzle configured and arranged to project a single water jet substantially horizontally and with linear kinetic energy directed generally radially inwardly towards the second axis of rotation along a line lying in a plane, the single water jet being directed by the nozzle generally radially inwardly towards the second axis of rotation of the disk and onto the vanes of the second disk to rotate the disk and thereby redirect the water radially outwardly horizontally with radial kinetic energy directed radially outwardly substantially co-planar with the linear kinetic energy of the single water jet, for distribution of the water in the washing chamber.

19. (New) The water distribution system of claim 16 , wherein the nozzle is positioned on a side wall comprising a back wall.

20. (New) A dishwasher comprising:
a washing chamber defined by side walls, a bottom wall, and a top wall;
a disk mounted on the top wall for rotation about a vertical axis of rotation, the disk having a plurality of vanes; and
a water nozzle positioned at a distance greater than a radius of the disk from the axis of rotation of the disk on one of the top wall or side walls, the water nozzle configured and arranged to project a single water jet substantially horizontally and with linear kinetic energy directed generally radially inwardly towards the axis of rotation along a line lying in a plane, the single water jet being directed by the nozzle generally radially inwardly towards the axis of rotation of the disk and onto the vanes of the disk to rotate the disk and thereby redirect the water radially outwardly horizontally with radial kinetic energy directed radially outwardly substantially co-planar with the linear kinetic energy of the single water jet, for distribution of the water in the washing chamber.

21. (New) The dishwasher of claim 20 further comprising a second disk with a plurality of vanes mounted on the top wall for rotation about a second vertical axis of rotation and a second water nozzle positioned at a distance greater than a radius of the second disk from the second axis of rotation on one of the top wall or side walls, the second water nozzle configured and arranged to project a single water jet substantially horizontally and with linear kinetic energy directed generally radially inwardly towards the second axis of rotation along a line lying in a plane, the single water jet being directed by the nozzle generally radially inwardly towards the second axis of rotation of the disk and onto the vanes of the second disk to rotate the disk and thereby redirect the water radially outwardly horizontally with radial kinetic energy directed radially outwardly substantially co-planar with the linear kinetic energy of the single water jet, for distribution of the water in the washing chamber.

22. (New) The dishwasher of claim 20, wherein the nozzle is positioned on a side wall comprising a back wall.

23. (New) The water distribution system according to claim 20, wherein the bottom wall, back wall and door of the dishwasher comprise a drawer and the top wall comprises a lid.

24. (New) A dishwasher comprising:
a washing chamber defined by side walls, a bottom wall, and a top wall;
at least one rack positioned in the washing chamber positioned for washing objects in the rack;
a disk mounted on the top wall within the washing chamber and above the rack for rotation about a vertical axis of rotation, the disk having a plurality of vanes, each vane having a vertical extent and substantially greater horizontal extent, with the vertical extent remaining vertical as the disk rotates about the axis of rotation; and
a water nozzle positioned at a distance greater than a radius of the disk from the axis of rotation of the disk on one of the top wall or side walls, the water nozzle configured and arranged to project a single water jet substantially horizontally and with linear kinetic energy directed generally radially inwardly towards the axis of rotation along a line lying in a plane, the single water jet being directed by the nozzle generally radially inwardly towards the axis

of rotation of the disk and onto the vanes of the disk to rotate the disk and thereby redirect the water radially outwardly horizontally with radial kinetic energy directed radially outwardly substantially co-planar with the linear kinetic energy of the single water jet, for distribution of the water in the washing chamber.

25. (New) The dishwasher of claim 24 further comprising a second disk with a plurality of vanes mounted on the top wall for rotation about a second vertical axis of rotation and a second water nozzle positioned at a distance greater than a radius of the second disk from the second axis of rotation on one of the top wall or side walls, the second water nozzle configured and arranged to project a single water jet substantially horizontally and with linear kinetic energy directed generally radially inwardly towards the second axis of rotation along a line lying in a plane, the single water jet being directed by the nozzle generally radially inwardly towards the second axis of rotation of the disk and onto the vanes of the second disk to rotate the disk and thereby redirect the water radially outwardly horizontally with radial kinetic energy directed radially outwardly substantially co-planar with the linear kinetic energy of the single water jet, for distribution of the water in the washing chamber.

26. (New) The dishwasher of claim 24, wherein the nozzle is positioned on a side wall comprising a back wall.

27. (New) The dishwasher of claim 24, wherein the bottom wall, back wall and door of the dishwasher comprise a drawer and the top wall comprises a lid.